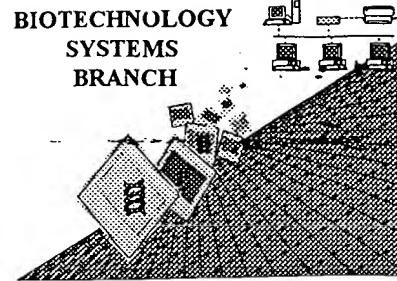


0400

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/641,931

Source: OPE

Date Processed by STIC: 8/29/2000

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER,  
703-308-4212.**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October-1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>**

OIPE  
pp 1-5

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/641,931

DATE: 08/29/2000  
TIME: 12:54:49

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08292000\I641931.raw

Does Not Comply  
Corrected Diskette Needed

```

3 <110> APPLICANT: PHENOGENE THERAPEUTIQUES INC.
5 <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULE, METHOD AND KIT FOR SELECTING A NUCLEIC ACID HAVING
6   A DESIRED FEATURE
8 <130> FILE REFERENCE: 29313-001
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/641,931
C--> 10 <141> CURRENT FILING DATE: 2000-08-18
10 <160> NUMBER OF SEQ ID NOS: 32
12 <170> SOFTWARE: PatentIn version 3.0
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 24
16 <212> TYPE: DNA
17 <213> ORGANISM: artificial sequence
W--> 19 <220> FEATURE:
W--> 19 <223> OTHER INFORMATION:
19 <400> SEQUENCE: 1
20 ggatccaata gaggattctt taac
23 <210> SEQ ID NO: 2
24 <211> LENGTH: 21
25 <212> TYPE: DNA
26 <213> ORGANISM: artificial sequence
W--> 28 <220> FEATURE:
W--> 28 <223> OTHER INFORMATION:
28 <400> SEQUENCE: 2
29 tcaccactct tctgtccctt c
32 <210> SEQ ID NO: 3
33 <211> LENGTH: 25
34 <212> TYPE: DNA
35 <213> ORGANISM: artificial sequence
W--> 37 <220> FEATURE:
W--> 37 <223> OTHER INFORMATION:
37 <400> SEQUENCE: 3
38 ggatcctacg aacatgcgac cactg
41 <210> SEQ ID NO: 4
42 <211> LENGTH: 21
43 <212> TYPE: DNA
44 <213> ORGANISM: artificial sequence
W--> 46 <220> FEATURE:
W--> 46 <223> OTHER INFORMATION:
46 <400> SEQUENCE: 4
47 tcatcttcgt gtgctagtca g
50 <210> SEQ ID NO: 5
51 <211> LENGTH: 30
52 <212> TYPE: DNA
53 <213> ORGANISM: artificial sequence
W--> 55 <220> FEATURE:
W--> 55 <223> OTHER INFORMATION:
55 <400> SEQUENCE: 5

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(global error)

insert these mandatory numeric identifiers  
wherever <213>  
response is Unknown  
or Artificial Sequence

24

21

25

21

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/641,931

DATE: 08/29/2000  
TIME: 12:54:49

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08292000\I641931.raw

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56 agcgaattcg tcctgtggac agatcactgc          30
59 <210> SEQ ID NO: 6
60 <211> LENGTH: 30
61 <212> TYPE: DNA
62 <213> ORGANISM: artificial sequence
W--> 64 <220> FEATURE:
W--> 64 <223> OTHER INFORMATION:
64 <400> SEQUENCE: 6
65 gctctcgagg aaggcacagc tgctttccac          30
68 <210> SEQ ID NO: 7
69 <211> LENGTH: 30
70 <212> TYPE: DNA
71 <213> ORGANISM: artificial sequence
W--> 73 <220> FEATURE:
W--> 73 <223> OTHER INFORMATION:
73 <400> SEQUENCE: 7
74 cttctcgagc agtttaaacg tgagcttccc          30
77 <210> SEQ ID NO: 8
78 <211> LENGTH: 30
79 <212> TYPE: DNA
80 <213> ORGANISM: artificial sequence
W--> 82 <220> FEATURE:
W--> 82 <223> OTHER INFORMATION:
82 <400> SEQUENCE: 8
83 acgtcttagat catcttcgtg tgctagtca          30
86 <210> SEQ ID NO: 9
87 <211> LENGTH: 47
88 <212> TYPE: DNA
89 <213> ORGANISM: artificial sequence
W--> 91 <220> FEATURE:
W--> 91 <223> OTHER INFORMATION:
91 <400> SEQUENCE: 9
92 tcgagcagat ctgcagcacc actggtcacg gcaatgtgtc ggagcgg          47
95 <210> SEQ ID NO: 10
96 <211> LENGTH: 43
97 <212> TYPE: DNA
98 <213> ORGANISM: artificial sequence
W--> 100 <220> FEATURE:
W--> 100 <223> OTHER INFORMATION:
100 <400> SEQUENCE: 10
101 ccgtcccgac acattgccgt gaccagtggt gctgcagatc tgc          43
104 <210> SEQ ID NO: 11
105 <211> LENGTH: 63
106 <212> TYPE: DNA
107 <213> ORGANISM: artificial sequence
W--> 109 <220> FEATURE:
W--> 109 <223> OTHER INFORMATION:
109 <400> SEQUENCE: 11
110 gtgtccaaggc catcagaggg gaaataaagc atctctacgg tggtcctaaa tagtcagcat          60

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/641,931

DATE: 08/29/2000  
TIME: 12:54:49

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08292000\I641931.raw

112 agt	63
115 <210> SEQ ID NO: 12	
116 <211> LENGTH: 28	
117 <212> TYPE: DNA	
118 <213> ORGANISM: artificial sequence	
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120 <400> SEQUENCE: 12	
121 ccagagctca tgcggaccac tcttcgt	28
124 <210> SEQ ID NO: 13	
125 <211> LENGTH: 24	
126 <212> TYPE: DNA	
127 <213> ORGANISM: artificial sequence	
W--> 129 <220> FEATURE:	
W--> 129 <223> OTHER INFORMATION:	
129 <400> SEQUENCE: 13	
130 tcgcgattta aattaattaa gctt	24
133 <210> SEQ ID NO: 14	
134 <211> LENGTH: 24	
135 <212> TYPE: DNA	
136 <213> ORGANISM: artificial sequence	
W--> 138 <220> FEATURE:	
W--> 138 <223> OTHER INFORMATION:	
138 <400> SEQUENCE: 14	
139 aagcttaatt aatttaatac gcga	24
142 <210> SEQ ID NO: 15	
143 <211> LENGTH: 18	
144 <212> TYPE: DNA	
145 <213> ORGANISM: artificial sequence	
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147 <400> SEQUENCE: 15	
148 agacgcgtat atctcacc	18
151 <210> SEQ ID NO: 16	
152 <211> LENGTH: 20	
153 <212> TYPE: DNA	
154 <213> ORGANISM: artificial sequence	
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W--> 156 <223> OTHER INFORMATION:	
156 <400> SEQUENCE: 16	
157 gatccgcacc gcaatatggc	20
160 <210> SEQ ID NO: 17	
161 <211> LENGTH: 25	
162 <212> TYPE: DNA	
163 <213> ORGANISM: artificial sequence	
W--> 165 <220> FEATURE:	
W--> 165 <223> OTHER INFORMATION:	
165 <400> SEQUENCE: 17	
166 tctagagatg cattatgcac atcag	25

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/641,931

DATE: 08/29/2000  
TIME: 12:54:49

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08292000\I641931.raw

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169 <210> SEQ ID NO: 18
170 <211> LENGTH: 60
171 <212> TYPE: DNA
172 <213> ORGANISM: artificial sequence
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174 <400> SEQUENCE: 18
175 tccaaggcat cagaggggaa ataaaggcatc tctacggtgg tcctaaatag tcagcatagt      60
178 <210> SEQ ID NO: 19
179 <211> LENGTH: 60
180 <212> TYPE: DNA
181 <213> ORGANISM: artificial sequence
W--> 183 <220> FEATURE:
W--> 183 <223> OTHER INFORMATION:
183 <400> SEQUENCE: 19
184 actatgctga ctatttagga ccaccgtaga gatgctttat ttccccccttg atggcttgg      60
187 <210> SEQ ID NO: 20
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: artificial sequence
W--> 192 <220> FEATURE:
W--> 192 <223> OTHER INFORMATION:
192 <400> SEQUENCE: 20
193 tagtcagcat agtacattc      20
196 <210> SEQ ID NO: 21
197 <211> LENGTH: 51
198 <212> TYPE: DNA
199 <213> ORGANISM: artificial sequence
W--> 201 <220> FEATURE:
W--> 201 <223> OTHER INFORMATION:
201 <400> SEQUENCE: 21
202 tcgatccgaa ttccggccg ctctatttggaa tcctcgagca gatctgcagc a      51
205 <210> SEQ ID NO: 22
206 <211> LENGTH: 148
207 <212> TYPE: DNA
208 <213> ORGANISM: artificial sequence
W--> 210 <220> FEATURE:
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210 <400> SEQUENCE: 22
211 agatgaatca agcttattcga taccgtcgag catgcattcta ggtgtccaaag ccatcagg      60
213 gaaataaaag catctctacg gttttccctaa atatgtcagca tagtacattt catctgacta      120
215 atactacaac accaccacca tgaataga      148
218 <210> SEQ ID NO: 23
219 <211> LENGTH: 18
220 <212> TYPE: DNA
221 <213> ORGANISM: artificial sequence
W--> 223 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 08/29/2000  
 PATENT APPLICATION: US/09/641,931 TIME: 12:54:49

Input Set : A:\ES.txt  
 Output Set: N:\CRF3\08292000\I641931.raw

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224 gagtggtccg catggta          18
227 <210> SEQ ID NO: 24
228 <211> LENGTH: 54
229 <212> TYPE: DNA
230 <213> ORGANISM: artificial sequence
W--> 232 <220> FEATURE:
W--> 232 <223> OTHER INFORMATION:
232 <400> SEQUENCE: 24
233 aaaaaaaaaaaaaaaa aaaaaaaaaaa aaggggaatt tcgcgattta aatt      54
236 <210> SEQ ID NO: 25
237 <211> LENGTH: 48
238 <212> TYPE: DNA
239 <213> ORGANISM: Sindbis virus
241 <400> SEQUENCE: 25
242 tctgcacac cactggcac ggcataatgtgt ttgctcgaa atgtgagc          48
245 <210> SEQ ID NO: 26
246 <211> LENGTH: 16
247 <212> TYPE: PRT
248 <213> ORGANISM: Sindbis virus
250 <400> SEQUENCE: 26
252 Ser Ala Ala Pro Leu Val Thr Ala Met Cys Leu Leu Gly Asn Val Ser
253 1           5           10          15
255 <210> SEQ ID NO: 27
256 <211> LENGTH: 48
257 <212> TYPE: DNA
258 <213> ORGANISM: artificial sequence
W--> 260 <220> FEATURE:
W--> 260 <223> OTHER INFORMATION:
260 <400> SEQUENCE: 27
261 tctgcacac cactggcac ggcataatgtgt cgagcgaa atgtgagc          48
264 <210> SEQ ID NO: 28
265 <211> LENGTH: 16
266 <212> TYPE: PRT
267 <213> ORGANISM: artificial sequence
W--> 269 <220> FEATURE:
W--> 269 <223> OTHER INFORMATION:
269 <400> SEQUENCE: 28
271 Ser Ala Ala Pro Leu Val Thr Ala Met Cys Arg Ser Gly Asn Val Ser
272 1           5           10          15
274 <210> SEQ ID NO: 29
275 <211> LENGTH: 44
276 <212> TYPE: DNA
277 <213> ORGANISM: artificial sequence
W--> 279 <220> FEATURE:
W--> 279 <223> OTHER INFORMATION:
279 <400> SEQUENCE: 29
280 gagagagaga gagtttaaac gtcgactttt tttttttttt tttt          44
283 <210> SEQ ID NO: 30
284 <211> LENGTH: 34

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VERIFICATION SUMMARY DATE: 08/29/2000  
PATENT APPLICATION: US/09/641,931 TIME: 12:54:50

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08292000\I641931.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:19 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:19 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:28 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:28 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:37 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:37 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:46 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:46 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:55 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:55 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:64 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:64 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:73 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:73 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:82 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:82 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:91 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:91 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:100 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:100 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:109 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:109 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:120 M:258 W: Mandatory Feature missing, <220> FEATURE:  
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L:129 M:258 W: Mandatory Feature missing, <220> FEATURE:  
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L:138 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:138 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:147 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:147 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:156 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:156 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:165 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:165 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:174 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:174 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:183 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:183 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:192 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:192 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
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L:201 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
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**VERIFICATION SUMMARY** DATE: 08/29/2000  
**PATENT APPLICATION:** US/09/641,931 TIME: 12:54:50

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08292000\I641931.raw

L:232 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:232 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:260 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:260 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

# Raw Sequence Listing Error Summary

#3  
Box 1

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>09/64/931</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleic	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
2 <input type="checkbox"/> Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	
4 <input type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.	
7 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies primarily to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence: <b>(2) INFORMATION FOR SEQ ID NO:X:</b> <b>(i) SEQUENCE CHARACTERISTICS:</b> (Do not insert any headings under "SEQUENCE CHARACTERISTICS") <b>(xi) SEQUENCE DESCRIPTION:</b> SEQ ID NO:X: This sequence is intentionally skipped  Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence. <b>&lt;210&gt; sequence id number</b> <b>&lt;400&gt; sequence id number</b> <b>000</b>	
10 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11 <input type="checkbox"/> Use of <213>Organism (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing this mandatory field or its response. <i>1-24,27-29 (maybe more)</i>	
12 <input checked="" type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	